

PATENT CLAIMS

1. A piston engine, in particular a reciprocating internal combustion engine, comprising

- a working space controlled by main valves,
- a charge channel leading to at least one of the main valves,
- a region of the charge channel divided into at least two parallel charge channel paths,
- and at least one additional valve controlling that portion of the charge volume flow in each of the two parallel charge channel paths,
- characterized by the features whereby
- the additional valves are designed as rotary slide valves (4, 5, 9) rotating in one direction during operation of the machine,
- the volume flow of the main valves and additional valves (7; 4, 5, 9) on the other hand and the additional valves (4, 5, 9) with respect to one another on the other hand are adjustable so they are mutually variable in relation to one another.

2. The device according to Claim 1,

characterized in that

at least two rotary slide valves (4, 9) are provided and are connected in series in one of the parallel paths of the charge channel (2).

3. The device according to Claim 1 or 2,

characterized in that

the rotary slide valves (4, 5, 9) rotate in synchronization with the movement of the piston.

4. The device according to one of the preceding claims, characterized in that the crankshaft of the reciprocating engine serves as a driving source for the rotary slide valves (4, 5, 9).